

100.2497  
Bao 40-52



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bao et al.  
Serial No.: 10/701,185  
Filed: November 4, 2003  
For: THIN DIELECTRIC LAYERS ON  
SUBSTRATES, AND METHODS OF  
MAKING THE SAME  
Group: Not Yet Assigned  
Examiner: Not Yet Assigned

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below:

Signed: 

Name: Karen S. Flynn

Date: December 17, 2003

Durham, North Carolina  
December 17, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER § 197(a)

Sir:

This Information Disclosure Statement is being filed before a first Official Action has been mailed in this case.

Pursuant to 37 C.F.R. 1.56, 1.97 and 1.98, applicants' attorney wishes to bring to the attention of the Patent and Trademark Office the following items listed on the accompanying Forms PTO/SB/08A and PTO/SB/08B.

## ITEMS

	<u>Patent No.</u>	<u>Publication Date</u>	<u>Patentee/Applicant</u>
1.	U.S. Patent Application No. 10/700,651	11/04/2003 (filing date)	Katz et al.
2.	4,471,036	09/11/1984	Skotheim
3.	5,347,144	09/13/1994	Garnier et al.
4.	5,625,199	04/29/1997	Baumbach et al.
5.	5,981,970	11/09/1999	Dimitrakopoulos et al.

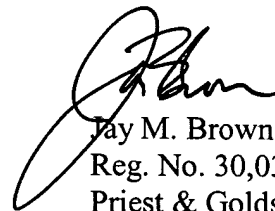
## Other Publications

6. DUBOIS ET AL., Electrical Properties of Electrochemically Prepared Thin Polyphenylene Oxide Films on a Platinum Surface: The Role of Ionic Impurities in Electroforming and Conduction, Thin Solid Films, 1980, Page(s) 141-148, Volume 69
7. DUBOIS ET AL., Electrical Properties of Electrochemically Prepared Thin Polytetrahydrofuran Films I: Characterization Under A.C. Conditions, Thin Solid Films, 1980, Page(s) 83-90, Volume 65
8. HARADA ET AL., Catalytic Amplification of Patterning via Surface-Confined Ring-Opening Metathesis Polymerization on Mixed Primer Layers Formed by Contact Printing, Langmuir, 2003, Page(s) 5104-5114, Volume 19, Number 12
9. KATZ ET AL., Electrical Properties of Multilayers Based on Zirconium Phosphate/Phosphonate Bonds, Chemistry of Materials, 1993, Page(s) 1162-1166, Volume 5
10. KLAUK ET AL., Pentacene Organic Thin-Film Transistors and ICs, Solid State Technology, March 2000, Page(s) 63-75, Volume 43, Number 3
11. LI ET AL., Field-Effect Transistors Based on Thiophene Hexamer Analogues with Diminished Electron Donor Strength, Chemistry of Materials, 1999, Page(s) 458-465, Volume 11
12. MENGOLI ET AL., An Overview of Phenol Electropolymerization for Metal Protection, Journal of the Electrochemical Society, December 1987, Page(s) 643C-652C, Volume 134, Number 12

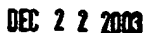
13. SANKARAPAPAVINASAM, Kinetics and Mechanism of Electropolymerization of m-Aminophenol, Journal of Polymer Science: Part A: Polymer Chemistry, 1993, Page(s) 1105-1109, Volume 31
14. SANKARAPAPAVINASAM, Permeability and Electrocatalytic Properties of Film Prepared by Electropolymerization of m-aminophenol, Synthetic Metals, 1993, Page(s) 173-185, Volume 58
15. YU ET AL., Controlled Grafting of Well-Defined Polymers on Hydrogen-Terminated Silicon Substrates by Surface-Initiated Atom Transfer Radical Polymerization, Journal of Physical Chemistry B, 2003, Page(s) 10198-10205, Volume 107, Number 37
16. ZANGMEISTER ET AL., Selective Deposition of Rod-like Phthalocyanine Aggregates on Au Surfaces Patterned with a Combination of Microcontact Printing and Electropolymerization, Advance Functional Materials, March 2002, Page(s) 179-186, Volume 12, Number 3

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made nor shall it be construed as an admission that the information cited is considered to be material to patentability, nor shall it be construed that no other material information exists.

Respectfully submitted,



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PTO/SB/08a (08-03)

Approved for use through 07/31/2006 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

*(Use as many sheets as necessary)*

**Complete if Known**

Application Number	10/701,185
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Filing Date	11/04/2003
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First Named Inventor	Bao et al.
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Art Unit

Examiner Name

Attorney Docket Number	100.2497
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Sheet

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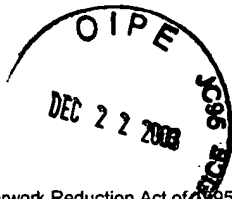
## U.S. PATENT DOCUMENTS

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/701,185
				Filing Date	11/04/2003
				First Named Inventor	Bao et al.
				Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	100.2497

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/	6.	DUBOIS ET AL., Electrical Properties of Electrochemically Prepared Thin Polyphenylene Oxide Films on a Platinum Surface: The Role of Ionic Impurities in Electroforming and Conduction, Thin Solid Films, 1980, Page(s) 141-148, Volume 69	
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/	8.	HARADA ET AL., Catalytic Amplification of Patterning via Surface-Confined Ring-Opening Metathesis Polymerization on Mixed Primer Layers Formed by Contact Printing, Langmuir, 2003, Page(s) 5104-5114, Volume 19, Number 12	
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Examiner Signature		Date Considered	
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